Auroral displays of July, 1892—Continued.						Auroral displays of July, 1892—Continued.				
Date.	Station.	Extent of	 -	Remarks.	Date.	Station.	Extent of	1	Remarks.	
		0					0	0	_	
16	Eastport, Me		To s. of zenith.	Brilliant flashes of white light, with pink and violet tints in north.	16	Detroit, Mich Grand Haven, Mich		70	Beams of green, pink, and white, with movement from e. to w. Incomplete corona formed in ze-	
16	Portland, Me	Cov'd sky.			16	Manistee, Mich		70	nith. Two arches, with beams to ze-	
16	Manchester, N. H	•••••	Zenith	Brilliant red in northwest, ex- tended and changed to pink,	16-17	Marquette, Mich	•	25	nith, and pillars of light. Corona formed in zenith, with	
16	Boston, Mass	90 to 270	35 S. of zenith.	nith, light changed to green and	16-17	Port Huron, Mich			to zenith.	
16 16	Woods Holl, Mass Block Island, R. I	100 to 260	So	dark red. Narrow band of white light. Bright beams, with motion from	16	Sault Ste. Marie, Mich .		••••••	light, "merry dancers." Tele- graph instruments burned out.	
16 16	Narragansett Pier, R. I . New Haven, Conn		Zenith	west to east. White arch, with beams to zenith. Pale green and white streamers		La Crosse, Wis	00	40	pearance, with "merry dan- cers" to zenith.	
16-17	Buffalo, N. Y	In north.	Zenith	in north; arch formed, crossing the zenith. Arch to zenith, with "merry	16	Milwaukee, Wis		75	Immense fan-shaped light, with streamers. An arch formed, with waves of light.	
16	Ithaca, N. Y		8	dancers." Low arch. Northern sky a biaze	16	Duluth, Minn		Zenith	Beams and waves of diffused light to zenith.	
16	Oswego, N. Y		30	of red light, flashing to zenith. Double arch, with waves of pink light to within 20° of southern	16	Moorhead, Minn	• • • • • • • • • • • • • • • • • • • •	Zenith	senting prismatic colors, ex- tended to zenith, and shot out	
16	Rochester, N. Y	45 to 110	Zenith	horizon. Three bands of light, changing from pink to green.	16 16	Red Wing, Minn Saint Vincent, Minn	• • • • • • • • • • • • • • • • • • • •	20	shafts of light nearly to horizon. An arch, with "merry dancers." Streamers of rosy red.	
16	Wedgwood, N. Y	95 to 275	30 S. of zenith.	Diffused rosy light.	16	Davenport, Iowa	155 to 220	45 60	Arch, with pale yellow and rosy red colors.	
16	Atlantic City, N. J		25	Sheets and streaks of light of steel blue, purple, and red.	16	Des Moines, Iowa		15	Arch, with brilliant streamers of	
. 16	Bridgeton, N. J			White light, with "merry dancers."	16	Dubuque, Iowa		35	green, orange, and purple. Flashes and slender beams of light, followed by arch.	
16	Erie, Pa		45	of light to 60°.	16	Keokuk, Iowa Kansas City, Mo		75	Arch, changing in color from white to red and green.	
16 16	Harrisburg, Pa		!	nith. Streamers, waves, and bands, with	16-17 16-17	Bismarck, N. Dak		18	Bright white light, with slender beams.	
10	i neuravirie, ra			west; colors crimson, green, and		·		30	Irregular pale beams shot upward and from east to west, and formed corona in zenith.	
16	Philadelphia, Pa	In north.		gray. Billows and beams of straw, green, and pale red colors almost to	16	Fort Buford, N. Dak Huron, S. Dak	_		Diffused light formed into an arch. Beams of light in north and north-	
16	Pittsburg, Pa	115 to 200	20	zenith. Beams, scarlet, green, and yellow.	16	Yankton, S. Dak		zenith.	east. Arch, with pale beams of light.	
16	Baltimore, Md	130 to 190	25	An arch, with flashes of red light.	16	Omaha, Nebr	In north.	20	Arch, with red and white stream-	
16	Washington, D. C	=	20	Rainbow-like arch, with occa- sional streamers.	16	Miles City, Mont		35	Arch of pale blue, with "merry dancers."	
16 16	Big Stone Gap, Va Louisburg, N. C	In north. In north.		Light red sheet, with white bands. White, rose, and orange, fading into gray.	20 20	Manchester, N. H Oswego, N. Y	I 35 to 215 In north.	70 35	Rays of pink, yellow, and green. Faint arch of whitish color.	
16	Cincinnati, Ohio		50	Arch, with beams. Deep red, changing to yellow and green.	20 20	Erie, Pa	Cov'd 135 180 to 270	45 So	Arch. Green colored arch, with flashing beams of light.	
16 16	Cleveland, Ohio Grand Rapids, Ohio	Cov'd 180 In north.		Arch, with white bands. Arch, with white light.	20 24	Bismarck, N. Dak Oswego, N. Y	160 to 250 90 to 225	30 40	Arch. Arch, with streamers.	
16	Chicago, Ill	120 to 165	15	Arch.	25	Alpena, Mich	135 to 270	i ₅	Arch, with rose-colored beams.	
16 16	Evanston, Ill	140 to 220	15	Arch, with flashes of light. Sky nearly covered with colored	25 25 28	Saint Paul, Minn Omaha, Nebr	160 to 230	40 40	Pale light, with purple beams. Arch, with beams of light.	
16-17	Cheboygan, Mich	135 to 195	70	lights. Colored streamers.	28	Saint Paul, Minn	160 to 200	35	Pale light, with numerous slender beams.	

STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for July, 1892, of the directors of the various state weather services:

ALABAMA.

Temperature.—The mean was 1.7 below the normal; maximum, 98, at

Brewton and Daphne, 30th; minimum, 60, at Healing Springs, 21st; greatest monthly range, 36, at Healing Springs; least monthly range, 20, at Citronelle. *Precipitation.*—The average was 4.29 above the normal; greatest monthly, 14.43, at Mobile; least monthly, 3.38, at Bermuda.—P. H. Mell, Observer, Weather Bureau, Auburn, director.

ARIZONA.

Temperature.-Maximum, 118, at Fort Mohave, 1st; minimum, 44, at Holbrook, 3d and 4th; greatest monthly range, 56, at Reymert; least monthly range, 27, at Dos Cabezos.

Precipitation.—Greatest monthly, 6.15, at Payson; least monthly, 0.00, at

Red Rock, Fort Mohave, Rancho del Pueblo, and Yuma.

Wind.—Prevailing direction, southwest.—J. C. Hayden, Observer, Weather Bureau, Tucson, director.

ARKANSAS.

Temperature. - The mean was 1.5 below the normal; maximum, 104, at Keesees Ferry, 20th and 21st; minimum, 52, at Fayetteville, 4th; greatest monthly range, 44, at Rogers; least monthly range, 24, at Greenville, Miss.

Precipitation.—The average was 0.09 below the normal; greatest monthly,

9.25, at Greenville, Miss.; least monthly, 1.09, at Madding.

Wind .- Prevailing direction, south .- M. F. Locke, Commissioner of Agriculture, Little Rock, director; F. H. Clarke, Observer, Weather Bureau, assistant.

CALIFORNIA.

Temperature. - Maximum, 114, at Lagrange, 31st; minimum, 34, at Yreka, 11th; greatest monthly range, 68, at San Ardo; least monthly range, 35, at Sweetwater Dam.

Precipitation.—Greatest monthly, 0.67, at Crescent City; least monthly, 0.00, at a number of places.

Wind. - Prevailing direction, west. - J. A. Barwick, Observer, Weather Bureau, Sacramento, director.

COLORADO.

Temperature.—The mean was normal; maximum, 109, at Orchard, 21st; minimum, 22, at Breckenridge, 2d; greatest monthly range, 66, at Orchard; least monthly range, 42, at Como, Georgetown, and Livermore.

Wind.—Prevailing direction, west.—W. S. Miller, Observer, Weather

Bureau, Denver, director.

FLORIDA.

Temperature.-Maximum, 100, at Mullet Key, 4th, 15th, 24th, and 25th; minimum, 65, at Archer, 2d, 4th, 5th, and 6th; greatest monthly range, 32, at Archer; least monthly range, 16, at Merritts Island. Precipitation.—Greatest monthly, 17.40, at Saint Andrews; least monthly,

0.08, at Jupiter.
Wind.—Prevailing direction, southeast.—E. R. Demain, Observer, Weather

Bureau, Jacksonville, director.

GEORGIA.

Temperature. - Maximum, 102, at Waynesboro, 29th and 30th; minimum, 50, at Macon, 8th; greatest monthly range, 46, at Macon; least monthly range, 21, at Morgan.

Precipitation.—Greatest monthly, 11.76, at Eastman; least monthly, 2.10,

at Columbus.

Wind.—Prevailing direction, southwest.—Park Morrill, Local Forecast Official, Weather Bureau, Atlanta, director.

Temperature. - Maximum, 109, at Boise Barracks, 31st; minimum, 27, at Lake, 14th; greatest monthly range, 67, at Boise Barracks; least monthly range, 37, at Kootenai.

Precipitation.—Greatest monthly, 0.41, at Kootenai; least monthly, trace,

at Lake and Martin.

Wind.—Prevailing direction, south.—J. H. Smith, Observer, Weather Bureau, Idaho Falls, director.

ILLINOIS.

Temperature.—The mean was 1.6 below the normal of the last 17 years; maximum, 107, at McLeansboro, 25th; minimum, 44, at Philo, 1st.

Precipitation.—The average was 0.73 above the normal of the last 14 years

greatest monthly, 6.49, at Pana; least monthly, 1.35, at Watseka.

Wind.—Prevailing direction, southwest.—John Craig, Observer, Weather

Bureau, Springfield, director.

INDIANA.

Temperature.—The mean was 0.4 above the normal; maximum, 100, at Muncie, 26th, and at Angola, 24th; minimum, 43, at Cambridge City, 1st and 4th; greatest monthly range, 54, at Point Isabel; least monthly range, 28, at Butlerville.

Precipitation.—The average was 0.12 above the normal; greatest monthly,

4.92, at Lafayette; least monthly, 1.52, at Vevay.

Wind.—Prevailing direction, southwest.—Prof. H. A. Huston, Lafayette, director; C. F. R. Wappenhans, Local Forecast Official, Weather Bureau, assistant.

IOWA WEATHER AND CROP SERVICE.

Temperature.—The mean was slightly below the normal; maximum, 104, at Glenwood, 11th; minimum, 38, at Centerville, 1st; greatest monthly range, 58, at Centerville; least monthly range, 33, at Vinton.

Precipitation.— The average was about 1.00 above the normal; greatest monthly, 12.86, at Corydon; least monthly, 1.71, at Carroll.

Wind.—Prevailing direction, southeast.—J. R. Sage, Des Moines, director; G. M. Chappel, Local Forecast Official, Weather Bureau, assistant.

KANSAS.

Temperature.—The mean was 1.5 below the normal; maximum, 108, at Temperature.—The mean was 1.5 below the normal; maximum, 108, at Gibson, 23d, and at Gove City, 22d; minimum, 41, at Shields, 29th; greatest monthly range, 64, at Lakin; least monthly range, 36, at Altoona.

Precipitation.—The average was 0.15 below the normal; greatest monthly, 6.51, at Belleville; least monthly, 0.66, at Tribune.

Wind.—Prevailing direction, south.—Prof. J. T. Lovewell, Topeka, director; T. B. Jennings, Observer, Weather Bureau, assistant.

KENTUCKY.

Temperature.-The mean was 2.0 below the normal; maximum, 100, at Louisa and Central City, 25th; minimum, 48, at Harrodsburg, 5th; greatest monthly range, 51, at Harrodsburg; least monthly range, 26, at South Fork.

Precipitation.—The average was 0.50 below the normal; greatest monthly,

6.22, at Lexington; least monthly, 0.37, at Georgetown.

Wind.—Prevailing direction, southwest.—Frank Burke, Observer, Weather Bureau, Louisville, director.

LOUISIANA.

Temperature.—The mean was 2.3 below the normal; maximum, 101, at Schriever, 3d; minimum, 56, at Minden, 9th, and at Lake Charles, 31st; greatest monthly range, 42, at Minden; least monthly range, 20, at State Experiment Station.

Precipitation.—The average was 4.50 above the normal; greatest monthly,

23.08, at Jeanerette; least monthly, 1.75, at Girard.

Wind.—Prevailing direction, south.—George E. Hunt, Local Forecast Official, Weather Bureau, New Orleans, director.

MARYLAND.

Temperature.-Maximum, 102, at Kirkwood, Del., 27th and 28th; minimum, 50, at Boettcherville, 19th; greatest monthly range, 50, at Boettcherville; least monthly range, 27, at Solomons.

Precipitation. - Greatest monthly, 5.34, at Mount Saint Marys; least

monthly, 1.10, at Boettcherville.

Wind.—Prevailing direction, southwest.—Dr. William B. Clark, Johns
Winds.—Prevailing direction, southwest.—Dr. William B. Clark, Johns Hopkins University, Baltimore, director; Prof. Milton Whitney, Maryland Weather Bureau, New Brunswick, director.

Agricultural College, secretary and treasurer; C. P. Cronk, Observer, Weather Bureau, in charge.

MICHIGAN.

Temperature.—The mean was 1.3 above the normal; maximum, 101, at Berlin, 26th; minimum, 32, at Hart, 3d; greatest monthly range, 61, at Gladwin and Evart; least monthly range, 36, at Lake City and Arbela.

Precipitation.—The average was 0.30 above the normal; greatest monthly, 5.17, at Noble; least monthly, 1.10, at Evart.

Wind.—Prevailing direction, southwest.—E. A. Evans, Local Forecast Official, Weather Bureau, Detroit, director.

Temperature.--Maximum, 102, at Kinbrae, 18th; minimum, 36, at Eagle Bend, 1st; greatest monthly range, 57, at Kinbrae; least monthly range, 31, at Pine River Dam.

Precipitation.—Greatest monthly, 12.01, at Minneapolis; least monthly, 1.25, at Ash Creek.

Wind.—Prevailing direction, south.—J. H. Harmon, Observer, Weather Bureau, Minneapolis, director.

MISSISSIPPI.

Temperature.—The mean was 1.6 below the normal; maximum, 103, at Columbus, 31st; minimum, 60, at Waynesboro, 10th and 11th; greatest monthly range, 37, at Columbus; least monthly range, 21, at Ship Island.

Precipitation.—The average was 6.06 above the normal; greatest monthly, 23.87, at Macon; least monthly, 5.28, at Batesville.

Wind.—Prevailing direction, southwest.—R. B. Fulton, Observer, Weather Bureau, University, director.

MISSOURI.

Temperature.—The mean was 1.7 below the normal; maximum, 101, at Langdon, 20th, and at Pickering, 12th; minimum, 45, at Adrian, 4th, and at Columbia, 12th; greatest monthly range, 54, at Princeton; least monthly range, 28, at Fox Creek.

Precipitation.—The average was 1.22 above the normal; greatest monthly,

9.05, at Mexico; least monthly, 1.73, at Cairo, Ill.

Wind .- Prevailing direction, southwest .- Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director; H. A. McNally, Observer, Weather Bureau, assistant.

MONTANA.

Temperature.-Maximum, 112, at Glendive, 19th; minimum, 25, at Elk Park, 23d; greatest monthly range, 71, at Bozeman; least monthly range, 44, at Dearborn Canyon.

Precipitation.—Greatest monthly, 4.49, at Fort Buford, N. Dak.; least

monthly, 0.19, at Horr.

Wind.—Prevailing direction, west.—E. J. Glass, Observer, Weather Bureau, Helena, director.

NEBRASKA.

Temperature.—Maximum, 113, at Thedford, 19th; minimum, 40, at Lexington, 2d; greatest monthly range, 72, at Lexington; least monthly range, 31, at Agee.

Precipitation.—Greatest monthly, 5.75, at Orleans; least monthly, 0.01, at

Wind.—Prevailing direction, southeast.—Prof. Goodwin D. Swezey, Crete, director; G. A. Loveland, Observer, Weather Bureau, assistant.

NEVADA.

Temperature.—The mean was 2.7 below the normal; maximum, 115, at Belleville, 5th; minimum, 30, at Sunnyside, 12th, and at Elko, 28th.

Precipitation.—The average was 0.14 above the normal; greatest monthly, 0.67, at Monitor Ranch; least monthly, 0.00, at a number of stations.—Prof. Charles W. Friend, Carson City, director; F. A. Carpenter, Observer, Weather Bureau, assistant.

NEW ENGLAND.

Temperature.—The mean was 0.7 above the normal; maximum. 102, at Lawrence, 25th, and at Taunton(d), 29th; minimum, 24, at West Milan, 5th; greatest monthly range, 61, at Stratford; least monthly range, 29, at Nan-

Precipitation.—The average was 1.03 below the normal; greatest monthly,

7.66, at Burlington; least monthly, 0.91, at Strafford and Nantucket. Wind .- Prevailing direction, southwest .- J. Warren Smith, Observer, Weather Bureau, Boston, Mass., director.

NEW JERSEY.

Temperature.—The mean was 0.2 below the normal; maximum, 105, at Plainfield, Camden, and New Brunswick, 26th; minimum, 44, at Dover, 17th, and at Allaire and Franklinville, 18th; greatest monthly range, 56, at Plainfield and Franklinville; least monthly range, 33, at Asbury Park and Atlantic

Precipitation.—The average was 0.29 below the normal; greatest monthly,

7.96, at Franklinville; least monthly, 2.38, at Hanover.

Wind .- Prevailing direction, southwest .- E. W. McGann, Observer,

NEW MEXICO.

Temperature.—Maximum, 105, at Coolidge, 2d, at Embudo, 15th, and at Los Lunas, 13th; minimum, 30, at Coolidge, 25th, and at Halls Peak, 4th; greatest monthly range, 75, at Coolidge; least monthly range, 33, at Santa Fe. Precipitation.—Greatest monthly, 3.92, at Chama; least monthly, 0.20, at Coolidge.

Wind .- Prevailing directions, west and southwest .- H. B. Hersey, Observer,

Weather Bureau, Santa Fe, director.

NEW YORK.

Temperature.—The mean was 0.2 below the normal; maximum, 99, at West Point, 27th, and at Baldwinsville, 29th; minimum, 36, at South Kortright, 17th; greatest monthly range, 59, at West Point; least monthly range, 34, at Buffalo.

Precipitation.—The average was 0.61 above the normal; greatest monthly,

8.44, at Hess Road Station; least monthly, 1.98, at Liberty.

Wind.—Prevailing direction, southwest.—Prof. E. A. Fuertes, Dean of the College of Civil Engineering, Cornell University, Ithaca, director; R. M. Hardinge, Observer, Weather Bureau, assistant.

NORTH CAROLINA.

Crops were injured during the first half of the month by excessive rains. Temperature.—The mean was 1.8 below the normal; maximum, 103, at Chapel Hill, 25th and 28th, and at Southern Pines, 28th, 30th, and 31st; greatest monthly range, 53, at Southern Pines; least monthly range, 22, at

Precipitation.—The average was 0.33 above the normal; greatest monthly,

10.83, at Southern Pines; least monthly, 2.37, at Soapstone Mount. Wind.—Prevailing direction, southwest.—Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Observer, Weather Bureau, assistant.

NORTH DAKOTA.

Temperature.—The mean was 0.3 above the normal: maximum, 108, at Medora, 22d; minimum, 31, at Woodbridge, 3d; greatest monthly range, 74, at Medora; least monthly range, 39, at Saint Johns.

Precipitation.—The average was 0.37 above the normal; greatest monthly,

5.23, at Dawson; least monthly, 1.17, at White Earth.

Wind .- Prevailing direction, southeast .- W. H. Fallon, Observer, Weather Bureau, Bismarck, director.

OHIO.

Temperature.-The mean was normal; maximum, 103, at Waverly and West Milton, 25th; minimum, 40, at Orangeville, 17th; greatest monthly range, 58, at Kenton; least monthly range, 41, at Marietta.

Precipitation.—The average was 0.37 above the normal; greatest monthly,

7.96, at Carrollton; least monthly, 1.36, at Dayton.

Wind.—Prevailing direction, southwest.—Prof. B. F. Thomas, Columbus, director: C. M. Strong, Observer, Weather Bureau, secretary and assistant.

OKLAHOMA.

Temperature.—Maximum, 112, at Lehigh, 21st; minimum, 49, at Gate City, 4th; greatest monthly range, 50, at Gate City; least monthly range, 30, at Healdton.

Precipitation.—Greatest monthly, 4.54, at Purcell; least monthly, 1.15, at

Mangum.

Wind.—Prevailing direction, south.—Louis Dorman, Observer, Weather Bureau, Oklahoma City, director.

OREGON.

Temperature.--Maximum, 105, at Canyon City and Newbridge; minimum, 28. at Crook.

Precipitation.—Greatest monthly, 1.13, at Gardiner; least monthly, 0.00, at a number of stations.—Hon. H. E. Hayes, Master State Grange, Portland, director; B. S. Pague, Local Forecast Official, Weather Bureau, assistant.

PENNSYLVANIA.

Temperature.—The mean was 0.2 below the normal; maximum, 103, at Hamburg, Quakertown, and Philadelphia, 26th; minimum, 38, at Wellsboro, 5th; greatest monthly range, 58, at Wellsboro; least monthly range, 35, at Lancaster.

Precipitation.—The average was about normal; greatest monthly, 8.59,

wind.—Prevailing direction, west.—Under direction of the Franklin Institute, Philadelphia; H. L. Ball, Observer, Weather Bureau, assistant.

SOUTH CAROLINA.

Temperature. - Maximum, 102, at Florence, 30th; minimum, 51, at Cheraw. 8th; greatest monthly range, 48, at Cheraw; least monthly range, 27, at Hardeeville.

Precipitation.—Greatest monthly, 13.47, at Cheraw; least monthly, 4.29, at

Greenwood.

Wind .- Prevailing direction, southwest .- A. P. Butler, Observer, Weather Bureau, Columbia, director.

SOUTH DAKOTA.

Temperature.—The mean was 0.7 above the normal; maximum, 104, at Alexandria, 20th and 22d; minimum, 35, at Cross, 2d; greatest monthly range, 65, at Parkston; least monthly range, 37, at Ashcroft.

Precipitation.—The average was 1.46 below the normal; greatest monthly,

7.76, at Aberdeen; least monthly, 0.38, at Kimball.

Wind.—Prevailing direction, southeast.—S. W. Glenn, Local Forecast Official, Weather Bureau, Huron, director.

TENNESSEE WEATHER AND CROP SERVICE.

Temperature.—The mean was about normal; maximum, 98, at Dyersburg, 19th and 24th; minimum, 58, at Jacksonboro, 2d, at Greeneville, 8th, and at Springdale, 17th; greatest monthly range, 38, at Springdale; least monthly range, 25, at McMinnville.

Precipitation.—The average was 1.79 above the normal; greatest monthly,

10.33, at Jackson; least monthly, 2.07, at Sweetwater.

Wind.—Prevailing directions, east and northwest.—J. B. Marbury, Local
Forecast Official, Weather Bureau, Nashville, director.

Temperature.—The mean was 0.2 below the normal: maximum, 109, at Fort Hancock, 15th, 16th, and 20th; minimum, 48, at Fort Hancock, 28th; greatest mouthly range, 61, at Fort Hancock.

Precipitation.—The average was 0.44 below the normal: greatest monthly.

8.49, at Orange; least monthly, 0.00, at Menardville.

Wind.—Prevailing direction, southeast.—D. D. Bryan, Galveston, director;
I. M. Cline, Local Forecast Official, Weather Bureau, assistant.

Temperature. - Maximum, 110, at Saint George, 31st; minimum, 27, at Soldiers Summit, 1st and 16th; greatest monthly range, 68, at Soldiers Summit; least monthly range, 41, at Salt Lake City.

Precipitation.—Greatest monthly, 1.03, at Mount Carmel; least monthly,

0.00, at Stockton.

Wind.—Prevailing direction, southeast.—G. N. Salisbury, Observer, Weather Bureau, Salt Lake City, director.

Temperature.—Maximum, 106, at Nottoway, 27th; minimum, 43, at Dale-Enterprise, 5th; greatest monthly range, 57, at Nottoway; least monthly range, 32, at Hot Springs and Warm Springs.

Precipitation.—Greatest monthly, 8.27, at Norfolk; least monthly, 0.79,

at Mossing Ford.

Wind.—Prevailing direction, southwest.—Dr. E. A. Craighill, Lynchburg, director; J. N. Ryker. Observer, Weather Bureau, assistant.

Hot weather and dry winds injured wheat east of the Cascades. Temperature.—The mean was 1.2 below the normal; maximum, 104, at Fort Spokane, 31st; minimum, 35, at Centerville and Rosalia, 7th, and at Waterville, 7th and 12th; greatest monthly range, 64, at Fort Spokane; least monthly range, 24, at Olga.

Precipitation.—The average was 0.08 above the normal; greatest monthly,

2.58, at Eatonville; least monthly, 0.00, at Fort Simcoe.

Wind.—Prevailing direction, southwest. — E. B. Olney, Observer, Weather Bureau, Olympia, director.

WEST VIRGINIA.

Temperature.—Maximum, 98, at Martinsburg, 26th and 27th, at Moorefield, 24th and 26th, at Spencer, 25th, and at Charleston, 26th; minimum, 41, at Davis, 6th; greatest monthly range, 51, at Davis; least monthly range, 34, at Danville.

Precipitation.—Greatest monthly, 7.20, at Central Station; least monthly,

1.21, at Piedmont.

Wind. - Prevailing direction, southwest. - W. W. Dent, Observer, Weather Bureau, Parkersburg, director.

WISCONSIN.

Temperature.—The mean was about 1.0 above the normal except in the west-central counties, where it was 1.0 to 2.0 below; maximum, 100, at Centralia, 22d; minimum, 38, at Crandon, 4th, at Florence, 15th, and at Ployer.

Precipitation.—Greatest monthly, 9.90, at Hudson; least monthly, 1.14, at

Oconomowoc.

Wind .- Prevailing direction, southwest .- W. L. Moore, Local Forecast Official, Weather Bureau, Milwaukee, director.

WYOMING.

Temperature.—Maximum, 112, at Casper, 6th; minimum, 31, at Saratoga, 3d; greatest monthly range, 64, at Casper and Wheatland; least monthly range, 47, at Lander.

Precipitation.—Greatest monthly, 2.20, at Lander; least monthly, trace, at Saratoga.

Wind .- Prevailing direction, west .- E. M. Ravenscraft, Observer, Weather Bureau, Cheyenne, director.